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14. ABSTRACT						
The objectives of ICNS10 were to: (1) Present the latest advances on both fundamental research and application, focusing on topics such as epitaxial deposition, bulk crystal growth, theory and simulation, optoelectronics and electronic devices, nanostructured materials, material properties and development. This meeting also focused on new devices such as solar cells and sensors; (2) Implement and increase information exchange and collaboration among academic, industrial, and government scientists and policy makers to accelerate scientific and technological advances; and (3) Provide to young scientists, graduate students, postdoctoral fellows, and junior faculty member, a great opportunity to present their most recent research results and to interact with worldwide recognized experts in the nitride research area.						
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Final Report ONR Grant N00014-13-1-0599 10th International Conference on Nitride Semiconductors Washington, DC / August 25-30, 2013

Conference Organizers

Chairs:

- Jaime A. Freitas, Jr., Naval Research Laboratory, US
- Christian Wetzel, Rensselaer, US

Honorary Chair: M. Asif Khan, University of South Carolina, US Program Chair - Russell Dupuis, Georgia Institute of Technology, US

- Subject Chair Bulk and Film Growth: Alan Doolittle, Georgia Institute of Technology, USA
- Subject Chair Optical Properties and Optoelectronic Devices: Michael Wraback, ARL, US
- Subject Chair Electronic Devices and Detectors: Debdeep Jena, Univ. of Notre Dame, USA Rump Session Chair: Zlatko Sitar, North Carolina State University, US
- Bulk and Film Growth: Stacia Keller, University of California, Santa Barbara, US
- Optical Devices Visible: Werner Goetz, Phillips Lumiled Lighting Co., US
- Optical Devices UV: Leo Schowalter, Crystal IS, Inc., US
- Electronic Devices T. Paul Chow, Rensselaer, US

Introduction

The III-V nitride semiconductor material system comprised of AlN, GaN, InN, and their ternary and quaternary compounds have gained an unprecedented interest as result of their wide range of applications encompassing green, blue, violet, and ultraviolet emitters and detectors, sensors, solar cells, and high-power and high-frequency electronic devices. Considering this large variety of application and versatility of this material system is crucial that the scientific community involved in this research area have the opportunity to congregate periodically to exchange new ideas and to start new research collaborations. The International Conference on Nitride Semiconductors has demonstrated, for about two decades, capable of providing such opportunity.

ICNS-10 objectives

- Present the latest advances on both fundamental research and application, focusing on topics such as bulk crystal growth, epitaxial deposition, theory and simulation, optoelectronics and electronic devices, nano-structured materials, material properties and development. This meeting will also focus in new devices such as solar cells and sensors.
- Implement and increase information exchange and collaboration among academic, industrial, and government scientists and policy makers to accelerate scientific and technological advances.

- Provide to young scientists, graduate students, postdoctoral fellows, and junior faculty member, a great opportunity to present their most recent research results and to interact with worldwide recognized experts in the nitride research area.

ICNS-10 overview

Despite the ongoing global economic slump, the conference was very well attended with 893 (from 31 countries) participants. The steady attendance is testament to the continuing development of III-nitrides as a material for a wealth of applications, including those needed for a 'greener' world, with applications in both more powerful and efficient lighting, electrical power transmission, and electrical vehicles.

932 abstracts were submitted to the conference, leading to 271 oral and 504 poster presentations. The field continues to grow and diversify, and as a result, for the first time, the conference series ran four parallel sessions. The meeting was divided into 12 different symposia, covering the entire spectrum of III-nitride semiconductor research and application, extending to cover newer, or less developed concepts such as solar cells and sensor applications.

We received 184 submissions for the conference proceedings to be published in Physica Status Solidi. Of these, 177 have been accepted for publication in special volume, with 37 being accepted for the special sections: Phys. Status Solidi A and B.

ICNS-10 Program

The five-day symposium started with two plenary talks addressing the state of the art of solid state lighting and high frequency applications. A total of 18 invited talks addressing important topics were delivered during the 45 oral presentation Sessions. The Conference scientific program was closed with three additional plenary presentations addressing critical aspects of III-V nitrides science and technology. Details of the scientific program are highlighted below.

The **Bulk and Thin Film Growth Subject** had 9 sessions. Namely, Planar, Alternative Nitrides and Growth Methods I, Doping and Defects I, Optical Structure and Measurements, Polar and Semi-Polar, Structure, Strain and Defects, Bulk, Doping and Defects II, Nanostructures, Planar, and Alternative Nitrides and Growth Methods II.

There were 341 abstracts received in the materials section, far more than any other topical area. 83 papers were accepted for oral presentation and 135 were accepted for posters making the oral acceptance rate fairly selective at 24% and the overall acceptance rate 64%. Several highlights included developments in the growth of semi-polar bulk and epitaxial materials via MOCVD and greatly improved p-type conduction via MBE. Integration with other 2D materials including grapheme were reported and significant improvement in the materials for solar cells were reported including several MBE groups having InGaN materials without phase separation at all In compositions. Nanostructures, particularly nanowires for light emitters continued to be well represented with many talks/posters focusing on the difficulties of p-doping and surface depletion effects in these high surface area structures. While the majority of

participants focused on materials topics for traditional LEDs, Lasers and HEMTs, significant focus emerged in non-traditional transistors (power in particular), solar cells, photodiodes, acoustic devices, and several novel structures. The discussion in each session was vibrant and lively showing that Nitride Materials science remains an area of great interest with an enormous growth potential.

The **Optoelectronic Device Subject** of the program was separated into two tracks: one for visible devices and one for ultraviolet devices, which ran concurrently in parallel sessions for some portion of the conference program. The visible optoelectronic device section had 14 oral sessions that covered the following topics: Visible LEDs on silicon, Nano LEDs and Lasers, High Brightness/Efficiency Visible LEDs, Visible LED Physics and Characterization, Visible LED Fabrication and Intergration, Solar Cells, Visible Nanostructures, Next Generation Visible LEDs, Visible Lasers, IR Materials and Devices, Characterization of Nitrides, Optical Properties of Nitrides, Optical Properties of Quantum Wells, and Visible Quantum Dots.

There were 7 invited presentations, 81 contributed presentations and 143 contributed posters. The invited presentations addressed areas of high technical interest, including 2 invited presentations in visible LEDs on silicon (including one on 8 inch diameter substrates), III-Nitride photonic cavities, recent developments in green and blue laser diodes, realization of high conversion efficiency solar cells using nitride semiconductors, high brightness/high efficiency LEDs, and high performance nanowire III-N LEDs.

The ultraviolet optoelectronic device section had 5 oral sessions that covered the following topics: Mid UV Lasers and Photodetectors, UV Quantum Effects, Mid-UV LEDs, UV Optical Properties, and UV Nanostructures.

There were 2 invited presentations, 34 contributed presentations, and 57 contributed posters. The invited presentations addressed areas of high technical interest in UV LEDs, including improvement of light extraction efficiency of deep UV LEDs using transparent p-AlGaN layers, and deep UV LEDs fabricated on HVPE-AlN substrates. There were also several presentations on optically pumped UV lasers, primarily on bulk AlN substrates, as well as several presentations on improved optical properties of AlGaN and GaN materials and heterostructures, many of which were enabled by growth on bulk substrates or defect-reduced templates.

The Electrical Devices Subject sessions were well attended, featuring a range of excellent invited speakers of international stature, and a number of high-quality contributed talks and posters. The highly attended and discussed invited talks featured 30-minute presentations by M. Micovic, HRL Laboratories, K. Chen, Hong Kong Univ. Sc. Tech., R. Dwilinski, CEO, Ammono, Poland, U. Mishra, UCSB and Transphorm, F. Medjdoub, IEMN, France.

In addition to the high-quality invited talks, 56 contributed oral presentations, each 15 minutes in duration were presented by an international mix of researchers from academic institutions and industrial and national laboratories. These talks featured several record-high speed and high-voltage GaN transistors, pushing the state of the art of the field, and generated a vigorous discussion of the current limitations and innovative solutions. In addition to the oral presentations, about 100 posters were presented. The poster sessions were well attended; the

electrical devices presenters won 4 best poster awards. The progress in the field was very well represented by the electrical devices invited talks, contributed talks, and posters. The sessions were attended and chaired by several researchers from federal laboratories (e.g. NRL), industry (e.g. Transphorm, HRL), and academia.

Rump Sessions:

Rump session on Bulk and Film Growth was centered on a "best" substrate for LED, LD, or transistor applications, addressing substrate related device performance limitations and how the current status in bulk substrate technology compares to device requirements. Issues related to opto-electronic devices were addressed by speakers Drs. Adrian Avramescu (Osram) and Mike Krames (Soraa). Dr. Krames pointed out the special importance of bulk GaN substrates for non- and semi-polar devices, including the expected reduction in price as the growth on bulk substrates becomes more typical. This argument of price reduction as a result of a higher usage of bulk substrates was supported by R. Dwilinski from Ammono. A summary of the substrate efforts in Poland was given by speaker M. Bockovski (Unipress, Poland). Most rump session attendees agreed upon intermixing substrate technologies, such as HVPE growth on ammonothermal GaN substrates in search of the best performance/price ratio for substrates. The current status of Na-flux growth of GaN substrates was reviewed by speaker M. Imade (Osaka University) including the use of selective area growth and overgrowth for the fabrication of large area substrates. Substrate needs for lateral and vertical transistors were addressed by speaker S. Chowdhury (ASU), who specifically highlighted the need for high quality GaN substrates for future vertical transistor applications. The field of UV-LEDs and LDs was covered by speaker R. Gaska (SET), and speaker B. Moody discussed the recent progress in bulk AlN growth at Hexatech.

The Rump Session on Optical Devices focused on technological breakthroughs needed (or are pending) for efficient and cost-effective LEDs. The format was 5 min presentations around the rump session topics by the panelists. This was followed by an open discussion based audience questions of the panelists. The first topic addressed was "The status of efficiency improvement for UV LEDS", introduced by L. Schowalter, and discussed in detail by M. Wraback (Army Research Laboratory; "Current standing and opportunities for improving the efficiency of UV-C LEDs") and H. Amano (U. Nagoya, Japan, "What controls the internal efficiency of UV LEDs? How much lower do defects densities need to go?"). The second highlighted topic, Cost reduction opportunities for visible LEDs in Illumination applications, was introduced by T. Mihopoulos, and overviewed by A. Krost (U. Magdeburg, Germany; "GaN on Si; is this the future?"), C. Van de Walle (UCSB, US, "What causes current droop? Are the narrow quantum wells the problem?"), F. Schubert (RPI, US, What cause current droop? Will better designs solve the problem?"), M. Pattison (representing J. Brodrick and the DOE SSL program, "DOE opportunities for new research on reducing the cost of LEDs"), and J. Speck (UCSB, US, "Will bulk GaN lead to more cost-effective LEDs?"). The audience participation was excellent at this rump session. The hottest topic was the cause of current droop. There was an interesting and entertaining discussion of the recent experiments by the UCSB and French team demonstrating Auger electrons while other participants continued to argue that alternative explanations were more likely the cause of the drop in nitride LED efficiency at high currents. This discussion was extended to UV LEDs as well. The different approaches to achieving higher efficiency more cost effectively also drew lively debate. Audience members and the panelists did not reach complete agreement by the end of the session but there did seem to be general agreement that the Rump Session had been informative and successful.

The Rump Session on Electronic Devices was introduced by T.P. Chow with an overview of the potential power device markets that SiC and GaN can impact. The selected topics "Can GaN power devices augment silicon power devices?", "Can GaN challenge and compete with SiC power devices? In what blocking voltage range are the GaN power devices most competitive?", "What are the main obstacles for large-scale GaN power device commercialization (cost, reliability, avalanche capability)?", "What are the potentials and challenges for monolithic integration (with Si CMOS, GaN photonic and rf devices)?" were addressed by the panelists T. Kikkawa (Fujitsu, Japan)", U. Mishra (UCSB, US), C. Eddy (Naval Research Laboratory, US), M. Briere (IR, US), and S. Stouffels (imec, Belgium). All the panelists agree that GaN power devices will occupy an important niche and augment silicon from 30 to at least 600V. At present, all the device structures are lateral, building on the rf HEMTs. However, there are important distinct device features, such as avalanche breakdown characteristics, which are unique to the high voltage power devices. Dr. Kikkawa emphasized the importance of profit margin in GaN power device commercialization, so as it can sustain future device development. Prof. Mishra and Dr. Briere felt that the cascaded pair of Si MOSFET-GaN HEMT is their present commercialization device approach. Prof. Chow has brought up the development of vertical GaN power devices and their potentials, and Prof. Mishra concurred on its importance for future demonstrations. Dr. Stouffels of IMEC presented the structural and electrical properties of their GaN epi on large diameter (6-8 inch) Si wafers. Prof. Chow brought up the possibilities of monolithic integration of GaN power devices with photonic and other type of devices, such as his recent demonstration of integrated GaN HEMT/LED. Dr. Eddy presented detailed reliability procedure and facilities available at Naval Research Laboratory that can be used to assess and ascertain GaN power device reliability. Everyone concurs that while present cost and reliability of GaN power devices have not yet approached the silicon level, it has made significant strides and GaN on Si devices has satisfied the JEDEC standards. Finally, all the panelists agree that GaN and SiC power devices appear to be addressing different segments of the power semiconductor device market - GaN for heterogeneous integration with Si and lower power discrete (<1kW) and SiC for higher power discrete (> 10kW). Promisingly, both are expected to grow substantially over the next decade.

Financial Support

ONR funds were allocated to invited speakers' and graduate / undergraduate students' registration fees and travel reimbursements.

Proceedings

In continuation of the ICNS tradition, the ICNS-10 proceedings will be published in a special volume of *Physica Status Solidi*. Charles "Chip" Eddy (U.S. Naval Research Laboratory) is chair of the publications committee and is assisted by three regional chairs: Dan Koleske (Americas), Hiroshi Amano (Asia) and Martin Kuball (Europe). Regular conference registration includes a copy of the Conference Proceedings. Students, retired or unemployed attendees need to purchase a copy.

All registered regular conference attendees and those who purchase a copy will receive the completed proceedings in May 2014.

Papers can be submitted online via the **Wiley-PSS website**. The published articles will be restricted to four journal pages for contributed papers and six journal pages for invited papers.

All papers will be considered as submissions to pss(c) – current topics in solid state physics, an international scientific journal. The publications committee will nominate outstanding papers for elevation to pss(a) – applications and materials science or pss(b) – basic solid state physics.

The Publications Committee,

Charles "Chip" Eddy, Jr., U.S. Naval Research Laboratory Daniel D. Koleske, Sandia National Laboratory Hiroshi Amano, Nagoya University Martin Kuball, University of Bristol



WELCOME TO THE CONFERENCE!

On behalf of the Conference Chairs and committee members, it is with great pleasure that we welcome you to the 10th International Conference on Nitride Semiconductors (ICNS-10). The ICNS Conference series is the premier forum for reporting research in group III-nitride semiconductors, and we are proud to continue in that long tradition of communicating, educating and celebrating outstanding research.

With great gratitude, we would like to acknowledge our Conference sponsors, exhibitors, committee members and invited speakers for their commitment to the success of the Conference.

With the spectacular National Harbor and Washington, DC as our backdrop, a superb technical program, engaging exhibits and numerous networking opportunities, we know this will be one exciting week.

Thank you for participating in ICNS-10!

Jaime A. Freitas Jr. U.S. Naval Research Laboratory Christian Wetzel Rensselaer

CONFERENCE HIGHLIGHTS

THE ICNS-10 PROGRAM

Scientists from around the world will converge in Washington, DC this week to share ideas, present technical information and contribute to the advancement of nitride semiconductors. Featuring over **700 oral and poster presentations**, ICNS-10 will offer a strong program with **36 technical sessions** focused on bulk and film growth, optical devices—both visible and UV—and electrical devices.

WELCOME RECEPTION

ICNS-10 kicks off Sunday evening with a **Welcome Reception** from $6:00\,\mathrm{pm}-7:30\,\mathrm{pm}$ in the Potomac Foyer. Before a full day of technical sessions, this is a great time to enjoy refreshments, meet with old colleagues, make new connections and share information.

PLENARY SESSIONS

Don't miss the five Plenary Sessions held on Monday and Friday. Monday morning, Mike Krames, Soraa, Inc., starts us off with his talk, Solid-State Lighting with Native Substrate GaN-based LEDs. Miroslav Micovic, HRL Laboratories, LLC, follows with his presentation, Highly Scaled GaN Transistor for Sub-millimeter Wave and High Efficiency Applications. On Friday, Uncovering and Surmounting Loss Mechanisms in Nitride Light Emitters is presented by Chris Van de Walle, University of California, Santa Barbara. Then Hiroshi Amano, Akasaki Research Center, Japan, gives his presentation, Reduction of Parasitic Reaction and Realization of High-quality In-rich InGaN-based Multiple-quantum-well Structures by High-pressure Metalorganic Vapor Phase Epitaxy. Jürgen Christen, Otto von Guericke University of Magdeburg, Germany, rounds out the Conference Friday afternoon with Advanced Luminescence Nano-characterization of III-N Semiconductors.

EXHIBIT

Be sure to visit the ICNS-10 exhibitors Monday evening through Wednesday afternoon in Potomac C/D. Learn more about the latest products and services of interest to you. See the Daily Schedule of Events on page 6 for exhibit hours.

POSTER SESSIONS

Authors will be available for **in-depth discussions** on Monday and Tuesday evenings and Wednesday afternoon in Potomac C/D. These popular sessions feature complimentary refreshments and are open to all Conference attendees. Lunch will be provided during the Wednesday session/reception.

RUMP SESSIONS

Rump sessions addressing key challenges in the field of nitride semiconductors will be held on Wednesday evening. These sessions start with short talks by panelists intended to frame the problem statement, followed by an open discussion with all attendees. See page 7 for specific topics.

TWO OPTIONAL WASHINGTON, DC TOURS

Thursday afternoon, Conference attendees and companions are invited to participate in one of two optional tours of Washington, DC—The Monument Tour and The Museum Tour. Take time out of the busy Conference week to explore some of America's most historical sites. Subject to availability, tour tickets may be purchased at the Registration Desk for \$65. See page 4 for details.

CONFERENCE BANQUET

Make time for this year's **Conference Banquet** on Thursday evening from 7:00 pm - 9:00 pm, held in Potomac C/D. Subject to availability, additional Banquet tickets may be purchased at the Registration Desk for \$75 per person.



For more program information visit www.mrs.org/icns-10

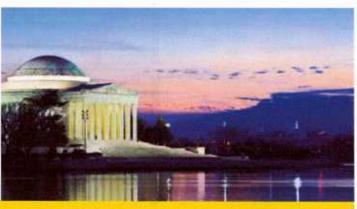
TOPIC LISTING

A: BULK AND FILM GROWTH B: OPTICAL DEVICES, VISIBLE C: OPTICAL DEVICES, UV D: ELECTRICAL DEVICES
F: PLENARY

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Axel Hoffmann Technische Universität Berlin, Germany

Eva Monroy CEA-Grenoble, France

Ulrich Steegmueller OSRAM Opto Semiconductors GmbH, Germany



Monday



8:30 am - 9:15 am

Mike Krames Soraa, Inc.

Solid-State Lighting with Native Substrate GaN-based LEDs



9:15 am - 10:00 am

Miroslav Micovic HRL Laboratories, LLC

Highly Scaled GaN Transistor for Sub-millimeter Wave and High Efficiency Applications

Friday



10:45 am - 11:30 am

Chris Van de Walle University of California, Santa Barbara

Uncovering and Surmounting Loss Mechanisms in Nitride Light Emitters



11:30 am - 12:15 pm

Hiroshi Amano Akasaki Research Center, Japan

Reduction of Parasitic Reaction and Realization of High-quality In-rich InGaNbased Multiple-quantum-well Structures by High-pressure Metalorganic Vapor Phase Epitaxy



12:15 pm - 1:00 pm

Jürgen Christen Otto von Guericke University of Magdeburg, Germany

Advanced Luminescence

Nano-characterization of III-N Semiconductors



MONDAY

Potom	ac C/D and 1-6	Nation	al Harbor 12-13	Nation	al Harbor 4-5	Chesa	peake 1-3	Chesa	peake 4-6
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E1.01	Mike Krames* 8:30 am – 9:15 am								
E1.02	Miroslav Micovic* 9:15 am – 10:00 am								
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		A2.02	Iulian Gherasoiu 10:45 am – 11:00 am	A1.02	Troy Baker 10:45 am – 11:00 am	C1.02	Ramon Collazo 10:45 am – 11:00 am		
		A2.03	Brendan Gunning 11:00 am - 11:15 am	A1.03	Arne Knauer 11:00 am – 11:15 am	C1.03	Theeradetch Detchprohm 11:00 am – 11:15 am		
		A2.04	Evan R. Glaser 11:15 am – 11:30 am	A1.04	Rie Togashi 11:15 am – 11:30 am	C1.04	Martin Martens 11:15 am – 11:30 am		
		A2.05	Xinqiang Wang 11:30 am – 11:45 am	A1.05	Naoto Fujita 11:30 am – 11:45 am	C1.05	Bjoern Albrecht 11:30 am – 11:45 am		
		A2.06	Boris Feigelson 11:45 am - 12:00 pm			C1.06	L. Rodak 11:45 am – 12:00 pm		
			Harrie Harris))))				
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		A3.01	E. Monroy* 1:30 pm – 2:00 pm	B1.01	Yongjo Tak* 1:30 – 2:00 pm	C2.01	Mark Holmes 1:30 pm – 1:45 pm	D1.01	David J. Meyer* 1:30 pm – 2:00 pm
					2.00 pm	C2.02	Sylvain Sergent 1:45 pm – 2:00 pm		1.00 pm – 2.00 pm
		A3.02	Jonas Laehnemann 2:00 pm – 2:15 pm	B1.02	Martin Albrecht* 2:00 pm – 2:30 pm	C2.03	Satoshi Kako 2:00 pm – 2:15 pm	D1.02	Bo Song 2:00 pm – 2:15 pm
		A3.03	Valentin N. Jmerik 2:15 pm – 2:30 pm			C2.04	Gordon Callsen 2:15 pm – 2:30 pm	D1.03	Brain P. Downey 2:15 pm – 2:30 pm
		A3.04	Tobias Meisch 2:30 pm – 2:45 pm	B1.03	Pengfei Tian 2:30 pm – 2:45 pm	C2.05	Jai Verma 2:30 pm – 2:45 pm	D1.04	Xing Lu 2:30 pm – 2:45 pm
		A3.05	Marc Landmann 2:45 pm – 3:00 pm	B1.04	Stephan Lutgen 2:45 pm – 3:00 pm	C2.06	Chalermchai Himwas 2:45 pm – 3:00 pm	D1.05	Raphael Brown 2:45 pm – 3:00 pm
				e de martine					
		A3: OP	K AND FILM GROWTH FICAL STRUCTURES D MEASUREMENTS INTINUED)		CAL DEVICES, VISIBLE NO LEDS AND LASERS		CAL DEVICES, UV D-UV LEDS	D1: HIG ANI NIT	TRICAL DEVICES H-SPEED D HIGH-PERFORMANCE RIDE HEMTS AND MODELING
		A3.06	F. Massabuau 3:30 pm – 3:45 pm	B2.01	Nathan Gardner* 3:30 pm – 4:00 pm	C3.01	Hideki Hirayama* 3:30 pm – 4:00 pm	D1.06	Kevin Chen* 3:30 pm – 4:00 pm
		A3.07	Carsten Netzel 3:45 pm – 4:00 pm		, pm		1100 hill		1.00 pill
		A3.08	Stefan Mohn 4:00 pm 4:15 pm	B2.02	Rick Smith 4:00 pm – 4:30 pm	C3.02	Toru Kinoshita* 4:00 pm – 4:30 pm	D1.07	Ujwal Radhakrishna 4:00 pm – 4:15 pm
		A3.09	Gerd Kunert 4:15 pm – 4:30 pm	B2.03	Johannes Ledig 4:15 pm – 4:30 pm			D1.08	Elison Matioli 4:15 pm – 4:30 pm
		A3.10	Ross Powell 4:30 pm – 4:45 pm	B2.04	George Wang 4:30 pm – 4:45 pm	C3.03	James Grandusky 4:30 pm – 4:45 pm	D1.09	Yuhao Zhang 4:30 pm – 4:45 pm
		A3.11	Benjamin Gaddy 4:45 pm – 5:00 pm	B2.05	Che-Hao Liao 4:45 pm – 5:00 pm	C3.04	Craig Moe 4:45 pm – 5:00 pm	D1.10	Michael Shur 4:45 pm – 5:00 pm
		A3.12	Liang Chen 5:00 pm – 5:15 pm	B2.06	S. Lis 5:00 pm – 5:15 pm	C3.05	Jens Rass 5:00 pm – 5:15 pm		
		A3.13	Michael Reshchikov 5:15 pm – 5:30 pm	B2.07	Huiwen Xu 5:15 pm - 5:30 pm	C3.06	Peng Dong 5:15 pm – 5:30 pm		
POSTER	SESSION Potomoc C/C) and 1-6 6	:00 pm ~ 7:30 pm		>>>				
*Invited		70							

Potomac C/D and 1-6	Nation	al Harbor 12-13	Nation	al Harbor 4-5	Chesa	peake 1-3	Chesa	peake 4-6
		K AND FILM GROWTH LAR AND SEMI-POLAR	B3: HIG	ICAL DEVICES, VISIBLE BH BRIGHTNESS/ FICIENCY VISIBLE LEDS		CAL DEVICES, UV OPTICAL PROPERTIES	D2: CH	CTRICAL DEVICES ARACTERIZATION OF NITRIDE ECTRONIC DEVICES
	A4.01	James S. Speck* 8:30 am – 9:00 am	B3.01	Hua-Shuang Kong* 8:30 am – 9:00 am	C4.01	Ryota Ishii 8:30 am – 8:45 am	D2.01	Feng Gao 8:30 am – 8:45 am
					C4.02	Shigefusa F. Chichibu 8:45 am - 9:00 am	D2.02	Drew Cardwell 8:45 am – 9:00 am
	A4.02	Alexei E. Romanov 9:00 am – 9:15 am	B3.02	Rei Hashimoto 9:00 am – 9:15 am	C4.03	Martin Feneberg 9:00 am – 9:15 am	D2.03	Ting-Hsiang Hung 9:00 am – 9:15 am
	A4.03	Frank Bertram 9:15 am – 9:30 am	B3.03	Anna Kafar 9:15 am – 9:30 am	C4.04	Konstantinos S. Daskalakis 9:15 am – 9:30 am	D2.04	Anup Sasikumar 9:15 am – 9:30 am
	A4.04	Cyrus E.Dreyer 9:30 am – 9:45 am	83.04	Leah Kurtzky 9:30 am – 9:45 am	C4.05	Georg Rossbach 9:30 am – 9:45 am	D2.05	Joel T. Asubar 9:30 am – 9:45 am
	A4.05	Takashi Hanada 9:45 am – 10:00 am	83.05	Yaxin Wang 9:45 am – 10:00 am	C4.06	Karsten Lange 9:45 am – 10:00 pm	D2.06	Miguel Montes Bajo 9:45 am – 10:00 am
BREAK 16:00 am - 10:30 am) >>				
,	A4: P0	K AND FILM GROWTH Lar and Semi-Polar Intinued)	B4: VIS	ICAL DEVICES, VISIBLE IBLE LED PHYSICS AND ARACTERIZATION	C4: UV	CAL DEVICES, UV OPTICAL PROPERTIES INTINUED)	D2: CHA	CTRICAL DEVICES RACTERIZATION OF NITRIDE CTRONIC DEVICES (CONTINUED)
	A4.06	Filip Tuomisto 10:30 am – 10:45 am	B4.01	Roman Vaxenburg 10:30 am - 10:45 am	C4.07	Seiji Mita 10:30 am – 10:45 am	D2.07	Marta Gladysiewicz 10:30 am – 10:45 am
	A4.07	Hideto Miyake 10:45 am – 11:00 am	B4.02	E. Fred Schubert 10:45 am – 11:00 am	C4.08	Juras Mickevicius 10:45 am – 11:00 am	D2.08	Jie Hu 10:45 am – 11:00 am
	A4.08	Sondes Bauer 11:00 am – 11:15 am	B4.03	Russel D. Dupuis 11:00 am - 11:15 am	C4.09	Wei Guo 11:00 am – 11:15 am	D2.09	Ronghua Wang 11:00 am – 11:15 am
	A4.09	Fabrice P. Oehler 11:15 am – 11:30 am	B4.04	Andrew Armstrong 11:15 am - 11:30 am	C4.10	Greg Rupper 11:15 am – 11:30 am	D2.10	Mikhail Gaevski 11:15 am – 11:30 am
	A4.10	Caroline Cheze 11:30 am – 11:45 am	B4.05	Michael Binder 11:30 am – 11:45 am	C4.11	Yoichi Yamada 11:30 am – 11:45 am	D2.11	Bumho Kim 11:30 am – 11:15 am
	A4.11	Junichi Nishinaka 11:45 am - 12:00 pm	B4.06	Marco Ulises Lopez Diaz 11:45 am - 12:00 pm	C4.12	Gwenole Jacopin 11:45 am - 12:00 pm	D2.12	H. Rusty Harris 11:45 am – 12:00 pm
LUNCH 12:00 pm - 1:30 pm	V- BIR	K AND FILM GROWTH	p. opr	ICAL DEVICES, VISIBLE	C- CDY	CAL DEVICES, UV	D. Et E	CTRICAL DEVICES
	A5: STI	RUCTURE, STRAIN AND FECTS	B5: VIS	BBLE LED FABRICATION D INTEGRATION		NANOSTRUCTURES	D3: SU INT	BSTRATES AND EPITAXIAL FEGRATION FOR NITRIDE FECTRONIC DEVICES
	A5.01	Armin Dadgar* 1:30 pm – 2:00 pm	B5.01	Eiji Kishikawa 1:30 pm – 1:45 pm	C5.01	Bernard Gil 1:30 pm – 1:45 pm	D3.01	Masanobu Hiroki 1:30 pm – 1:45 pm
			B5.02	Danti Chen 1:45 pm – 2:00 pm	C5.02	Matthias Buerger 1:45 pm – 2:00 pm	D3.02	Piotr Kruszewski 1:45 pm – 2:00 pm
	A5.02	Juerfen Daeubler 2:00 pm – 2:15 pm	B5.03	Manish Mathew 2:00 pm – 2:15 pm	C5.03	Ana Cros 2:00 pm – 2:15 pm	D3.03	Quanzhong Jiang 2:00 pm – 2:15 pm
	A5.03	Elaheh Ahmadi 2:15 pm - 2:30 pm	85.04	Chih-Chung (C. C.) Yang 2:15 pm ~ 2:30 pm	C5.04	Christopher Durand 2:15 pm – 2:30 pm	D3.04	Glen David Via 2:15 pm – 2:30 pm
	A5.04	Guillaume Perillat-Merceroz 2:30 pm – 2:45 pm	85.05	Jian Wei Ho 2:30 pm – 2:45 pm	C5.05	Christian Tessarek 2:30 pm – 2:45 pm	D3.05	Zhongda Li 2:30 pm – 2:45 pm
	A5.05	Shuhei Ichikawa 2:45 pm – 3:00 pm	85.06	Hojun Chang 2:45 pm – 3:00 pm	C5.06	Shunsuke Ishizawa 2:45 pm – 3:00 pm	D3.06	Roland Baranyai 2:45 pm – 3:00 pm
BREAK 3:00 pm - 3:30 pm				>>>				
	A5: STE	K AND FILM GROWTH RUCTURE, STRAIN AND FECTS (CONTINUED)		ICAL DEVICES, VISIBLE LAR CELLS		CAL DEVICES, VISIBLE IBLE NANOSTRUCTURES	D3: SU INT ELE	CTRICAL DEVICES BSTRATES AND EPITAXIAL EGRATION FOR NITRIDE ECTRONIC DEVICES INTINUED)
	A5.06	Yoichi Kawakami* 3:30 pm – 4:00 pm	B6.01	Motoaki Iwaya* 3:30 pm – 4:00 pm	87.01	Atsushi Takahashi 3:30 pm – 3:45 pm	D3.07	Casey Kirkpatrick 3:30 pm – 3:45 pm
					87.02	Dominik Heinz 3:45 pm – 4:00 pm	D3.08	Kenji Shiojima 3:45 pm – 4:00 pm
	A5.07	Marc P. Hoffmann 4:00 pm – 4:15 pm	86.02	Chloe A. Fabien 4:00 pm – 4:15 pm	B7.03	Xiang Zhou 4:00 pm + 4:15 pm	D3.09	Zenji Yatabe 4:00 pm – 4:15 pm
	A5.08	Jie Song 4:15 pm – 4:30 pm	B6.03	Sergey Y. Karpov 4:15 pm – 4:30 pm	B7.04	Christopher J. Lewis 4:15 pm – 4:30 pm		
	A5.09	Guangxu Ju 4:30 pm – 4:45 pm	86.04	Liwen Sang 4:30 pm – 4:45 pm	B7.05	Yamina Andre 4:30 pm – 4:45 pm		
	A5.10	Alec Fischer 4:45 pm – 5:00 pm	B6.05	Jumpei Kamimura 4:45 pm – 5:00 pm	B7.06	Hideaki Murotani 4:45 pm – 5:00 pm		
	A5.11	Toni Markurt 5:00 pm – 5:15 pm	86.06	Naoteru Shigekawa 5:00 pm – 5:15 pm	B7.07	Steven Albert 5:00 pm – 5:15 pm		
	A5.12	Oliver Schulz 5:15 pm – 5:30 pm	B6.07	Kurokawa Hironori 5:15 pm – 5:30 pm	87.08	James R. Riley 5:15 pm – 5:30 pm		
POSTER SESSION Potomoc C/D	and 1-6	5:00 pm - 7:30 pm		>>>				

WEDNESDAY

Potomac C/D and 1-6	Nation	al Harbor 12-13	Nation	al Harbor 4-5	Chesapeake 1-3	Chesa	peake 4-6	
	A: BULK AND FILM GROWTH		B: OPTICAL DEVICES, VISIBLE			D: ELE	CTRICAL DEVICES	
	A6: BUL	.K	B8: NEXT GENERATION VISIBLE LEDS			D4: NOVEL NITRIDE ELECTRONIC DEVICES AND CONCEPTS		
	A6.01	Robert Dwilinski* 8:30 am – 9:00 am	B8.01	Kazuhide Kumakura 8:30 am – 8:45 am		D4.01	Digbijoy N.Nath 8:30 am – 8:45 am	
			B8.02	Sriram Krishnamoorthy 8:45 am - 9:00 am		D4.02	Benjamin Reuters 8:45 am – 9:00 am	
	A6.02	Mark D'Evelyn 9:00 am – 9:15 am	B8.03	Masahiro Watanabe 9:00 am - 9:15 am		D4.03	Sirona Valdueza-Felip 9:00 am – 9:15 am	
	A6.03	Matthias Bickerman 9:15 am – 9:30 am	B8.04	Kevin O'Donnell 9:15 am – 9:30 am		D4.04	Douglas Yoder 9:15 am – 9:30 am	
	A6.04	Mikolaj Amilusik 9:30 am – 9:45 am	88.05	Horng-Shyang Chen 9:30 am – 9:45 am		D4.05	Tyler A. Growden 9:30 am 9:45 am	
	A6.05	Keisuke Yamane 9:45 am – 10:00 am	B8.06	Dennis Van Den Broeck 9:45 am – 10:00 am		D4.06	Bin Lu 9:45 am – 10:00 am	
REAK 10:00 am - 10:30 am				>>>				
	A: BULK	AND FILM GROWTH	B: OPTI	CAL DEVICES, VISIBLE		D: ELE	CTRICAL DEVICES	
	A6: BUL	K (CONTINUED)	B9: VIS	IBLE LASERS		DE	VEL NITRIDE ELECTRONIC VICES AND CONCEPTS ONTINUED)	
	A6.06	Masayuki Imanishi 10:30 am – 10:45 am	B9.01	Adrian Avramescu* 10:30 am – 11:00 am		D4.07	Umesh K. Mishra* 10:30 am – 10:45 am	
	A6.07	Mike Seacrist 10:45 am – 11:00 am				D4.08	Eng Fong Chor 10:45 am – 11:00 am	
	A6.08	Tomasz Sochacki 11:00 am – 11:15 am	89.02	Matthew Hardy 11:00 am – 11:15 am				
	A6.09	Makorto Saito 11:15 am – 11:30 am	B9.03	Grzegorz Muziol 11:15 am – 11:30 am		D4.09	Pierre Tchoulfian 11:15 am – 11:30 am	
	46.40	Table Weithing	B9.04	Christoph Berger 11:30 am – 11:45 am		D4.10	Akihiro Makamura 11:30 am – 11:45 am	
	A6.10	Tanja Kuittinen 11:45 am – 12:00 pm	89.05 89.06	Szymon Stanczyk 11:45 am – 12:00 pm Katarzyna Holc		D4.11	Andrei Vescan 11:45 am – 12:00 pm	
			B9.07	12:00 pm – 12:15 pm Jonathan J. Wierer		D4.12	Ye Shao 12:00 pm - 12:15 pm Edwin W. Lee	
			55.07	12:15pm – 12:30 pm		04.13	12:15 pm – 12:30 pm	
OSTER SESSION Potomoc C/	D AND 1-6	1:00 pm — 2:30 pm		>>>				
		AND FILM GROWTH Ping and defects II		CAL DEVICES, VISIBLE MATERIALS AND DEVICES	A		CTRICAL DEVICES VEL ELECTRONIC CONCEPT	
	A7.01	Frank Mehnke 2:45 pm – 3:00 pm	810.01	Nicolas Grandjean* 2:45 pm – 3:15 pm				
	A7.02	Sergei V. Novikov 3:00 pm – 3:15 pm				D5.01	Lei Shao 3:00 pm – 3:15 pm	
	A7.03	Erin C. Kyle 3:15 pm – 3:30 pm	810.02	Izabela Gorczyca 3:15 pm – 3:30 pm		D5.02	Zihao Yang 3:15 pm – 3:30 pm	
	A7.04	M. Sultana 3:30 pm – 3:45 pm	810.03	3:30 pm - 3:45 pm		D5.03	Ligia M. Amorim 3:30 pm – 3:45 pm	
	A7.05	Ronny Kirste 3:45 pm – 4:00 pm	B10.04	3:45 pm - 4:00 pm		D5.04	Anna Mukhtarova 3:45 pm – 4:00 pm	
	A7.06	Zachary Bryan 4:00 pm – 4:15 pm		Hiroyuki Yaguchi 4:00 pm – 4:15 pm		D5.05	Parijat Sengupta 4:00 pm – 4:15 pm	
	A7.07	Jae-Hyun Ryou 4:15 pm – 4:30 pm	B10.06	Daniel Feezell 4:15 pm – 4:30 pm	W. Carry			
REAK 4:30 - 5:00 om				>>>				
	:00 pm			>>>				

THURSDAY & FRIDAY

otomac C/D and 1-6	Nationa	el Harbor 12-13	Nation	al Harbor 4-5	Chesapeake 1-3	Chesas	reake 4-6
	A: BULK	AND FILM GROWTH	B; OPTI	CAL DEVICES, VISIBLE		D: ELEC	TRICAL DEVICES
	AS: NAN	A8: NANOSTRUCTURES		B11: CHARACTERIZATION OF NITRIDES		DE: GAN ON SILICON ELECTR DEVICES & PROCESS INNOVATIONS	
	A8.01	Martin Heilmann 8:30 am - 8:45 pm	B11.01	Ja-kyung Lee 8:30 am – 8:45 am		D6.01	Bong-Ryeol Park 8:30 am - 8:45 am
	A8.02	Hubert Renevier 8:45 am - 9:00 am	B11.02	Emanuele Poliani 8:45 am - 9:00 am		D6.02	Farah Khir 8:45 am - 9:00 am
	A8.03	Songrui Zhao 9:00 am - 9:15 am	811.03	Nicola Trivellin 9:00 am ~ 9:15 am		D6.03	Satyaki Ganguly 9:00 am - 9:15 am
	A8.04	Bruno Daudin 9:15 am - 9:30 am	B11.04	Stefan Schulz 9:15 am - 9:30 am		D6.04	Yvon Cordier 9:15 am - 9:30 am
	A8.05	Hiroaki Hayashi 9:30 am – 9:45 am	B11.05	Kamal Baloch 9:30 am - 9:45 am		D6.05	Tongde Huang 9:30 am - 9:45 am
	A8.06	Christian Hauswald 9:45 am - 10:00 am	811.06	Joel Eymery 9:45 am - 10:00 am		D6.06	Shu Yang 9:45 am - 10:00 am
BREAK				>>>	4 75 15 25	3100	
				The second secon			
		AND FILM GROWTH	B: OPTI	CAL DEVICES, VISIBLE		D: ELEC	TRICAL DEVICES
	A: BULK A8: NAN	AND FILM GROWTH IOSTRUCTURES NTINUED)	812: OF	CAL DEVICES, VISIBLE TICAL PROPERTIES INTRIDES		D6: GAN	
	A: BULK A8: NAN	IOSTRUCTURES	812: OF	TICAL PROPERTIES		D6: GAN	ON SILICON ELECTRONI FICES & PROCESS
	A: BULK A8: NAN (COI	IOSTRUCTURES NTINUED) Lutz Geelhaar	B12.01	TICAL PROPERTIES HITRIDES Blair Connelly		D6: GAP DEV INN	ON SILICON ELECTRONI PICES & PROCESS OVATIONS (CONTINUED) Farid Medidoub*
	A: BULK A8: NAN (CO)	Lutz Geelhaar 10:30 am – 10:45 am Emmanuel Le Boulbar	B12.01 B12.02	Blair Connelly 10:30 am – 10:45 am M. Mohajerani		D6: GAP DEV INN	ON SILICON ELECTRONI PICES & PROCESS OVATIONS (CONTINUED) Farid Medidoub*
	A: BULK A8: NAN (COR A8.07	Lutz Geelhaar 10:30 am – 10:45 am Emmanuel Le Boulbar 10:45 am – 11:00 am Richard Webster	B12.01 B12.02 B12.03	Blair Connelly 10:30 am – 10:45 am M. Mohajerani 10:45 am – 11:00 am Takuya Ozaki		D6: GAI DEN INN D6: 07	NON SR.ICON ELECTRONI PICES & PROCESS OVATIONS (CONTINUED) Farid Medjdoub* 10:30 am - 11:00 am
	A: BULK A8: NAN (COP A8:07 A8:08 A8:09	Lutz Geelhaar 10:30 am – 10:45 am Emmanuel Le Boulbar 10:45 am – 11:00 am Richard Webster 11:00 am – 11:15 am Zhaoxia Bi	B12.01 B12.02 B12.03 B12.04	Blair Connelly 10:30 am – 10:45 am M. Mohajerani 10:45 am – 11:00 am Takuya Ozaki 11:00 am – 11:15 am Ashish Arora		D6: GAI DEV INN D6: 07	NON SRIGON ELECTRONI PICES & PROCESS OVATIONS (CONTINUED) Farid Medidoub* 10:30 am - 11:00 am Omair Saadat 11:00 am - 11:15 am Tadahiro Imada
	A: BULK A8: NAN (CON A8.07 A8.08 A8.09 A8.10	Lutz Geelhaar 10:30 am – 10:45 am Emmanuel Le Boulbar 10:45 am – 11:00 am Richard Webster 11:00 am – 11:15 am Zhaoxia Bi 11:15 am – 11:30 am Ian Griffiths	B12.01 B12.02 B12.03 B12.04 B12.05	Blair Connelly 10:30 am – 10:45 am M. Mohajerani 10:45 am – 11:00 am Takuya Ozaki 11:00 am – 11:15 am Ashish Arora 11:15 am – 11:30 am Nathaniel Woodward		D6: GAI DEN INN D6:07	OM SELCON ELECTRONI (ICES & PROCESS OVATIONS (CONTINUED) Farid Medidoub* 10:30 am - 11:00 am Omair Saadat 11:00 am - 11:15 am Tadahiro Imada 11:15 am - 11:30 am Matteo Meneghini
FOURS (optional) 1:00 pm−	A: BULK A8: NAN (CON A8.07 A8.08 A8.09 A8.10 A8.11 A8.12	Lutz Geelhaar 10:30 am - 10:45 am Emmanuel Le Boulbar 10:45 am - 11:00 am Richard Webster 11:00 am - 11:15 am Zhaoxia Bi 11:15 am - 11:30 am lan Griffiths 11:30 am - 11:45 am Wen-Cheng Ke	B12.01 B12.02 B12.03 B12.04 B12.05	Blair Connelly 10:30 am - 10:45 am M. Mohajerani 10:45 am - 11:00 am Takuya Ozaki 11:00 am - 11:15 am Ashish Arora 11:15 am - 11:30 am Nathaniel Woodward 11:30 am - 11:45 am Daichi Imai		D6: GAI DET INN D6:07 D6:08 D6:09 D6:10	OW SR.ICON ELECTRONI PICES & PROCESS OVATIONS (CONTINUED) Farid Medidoub* 10:30 am - 11:00 am Omair Saadat 11:00 am - 11:15 am Tadahiro Imada 11:15 am - 11:30 am Matteo Meneghini 11:30 am - 11:45 am Andrew D. Koehler

Potomac C/D and 1-6	Nation	al Harbor 12-13	Nation	al Harbor 4-5	Chesapeake 1-3	Chesap	ieake 4-6
	A: BULK AND FILM GROWTH A9: PLANAR, ALTERNATIVE NITRIDES AND GROWTH METHODS II		B: OPTICAL DEVICES, VISIBLE B13: OPTICAL PROPERTIES OF QUANTUM WELLS			B: OPTICAL DEVICES, VISIBLE B14: VISIBLE QUANTUM DOTS	
	A9.01	Virginia Wheeler 8:30 am – 8:45 pm	B13.01	Andreas Hangleiter 8:30 am - 8:45 am		B14.01	Lei Zhang 8:30 am – 8:45 am
	A9.02	Hongxing Jiang 8:45 am – 9:00 am	B13.02	Thomas Lehnhardt 8:45 am - 9:00 am		B14.02	Robert M.Emery 8:45 am – 9:00 am
	A9.03	Liverios Lymperakis 9:00 am – 9:15 am	B13.03	Lukas Schade 9:00 am – 9:15 am		B14.03	Je-Hyung Kim 9:00 am – 9:15 am
	A9.04	Tsutomu Araki 9:15 am – 9:30 am	B13.04	Axel Hoffman 9:15 am - 9:30 am		B14.04	Benjamin P. Reid 9:15 am – 9:30 am
	A9.05	Robert Martin 9:30 am – 9:45 am	813.05	Saulius Marcinkevicius 9:30 am – 9:45 am		B14.05	Su-Hyun Gong 9:30 am – 9:45 am
	A9.06	Stefan Krischok 9:45 am – 10:00 am	B13.06	Tom Badcock 9:45 am – 10:00 am		B14.06	Brandon Demory 9:45 am – 10:00 am
	A9.07	Tomoyuki Suzuki 10:00 am – 10:15 am	B13.07	Maki Kushimoto 10:00 am – 10:15 am		B14.07	Laura Monteagudo-Lerm 10:00 am – 10:15 am
BREAK 0:15 am - 10:45 am				>>>			
E: PLENARY E1: PLENARY II							1.6
E2.01 Chris Van de Walle* 10:45 am – 11:30 am							
E2.02 Hiroshi Amano* 11:30 am – 12:15 pm							
E2.03 Jurgen Christen* 12:15 pm - 1:00 pm							
Closing 1:00 pm - 1:15 pm							

MONDAY

Poster Authors Set-up

3:00 pm - 6:00 pm

General Viewing | Potomac C/D and 1-6

6:00 pm = 7:30 pm

A! BULK A	ND FILM GROWTH
PAPER#	PRESENTER
AP1.01	Boleslaw Lucznik
AP1.02	Masataka Imura
AP1.03	F. C. Massabuau
AP1.04	Govind Gupta
AP1.05	Jeff Leathersich
AP1.06	Abheek Bardhan
AP1.07	Siyuan Zhang
AP1.08	Charles R. Eddy
AP1.09	Neeraj Nepal
AP1.10	Kyu-Seung Lee
AP1.11	Chi-Chin Wu
AP1.12	Wojciech Linhart
AP1.13	Benjamin Leung
AP1.14	Quanzhong Jiang
AP1.15	Prem Kumar
A. 1.10	Kandaswamy
AP1.16	Michael Mastro
AP1.17	Ming Zhao
AP1.18	Michal Bockowski
AP1.19	Stephan M. Knoll
AP1.20	Lindsay Hussey
AP1.21	Jennifer K. Hite
AP1.22	Zeng Zhang
AP1.23	Zachary Bryan
AP1.24	Nikolaus Dietz
AP1.25	Min Ting
AP1.26	Iman S. Roqan
AP1.27	Michael E. Rudinsky
AP1.28	Yoshihiro Ichinohe
AP1.29	Todd L. Williamson
AP1.30	Kohei Ueno
AP1.31	Przemyslaw Witczak
AP1.32	Stephen K. O'Leary
AP1.32	Shaoxin Zhu
AP1.34	Qing Paduano
AP1.35	Nagarajan Subramaniyam
AP1.36	Lang Niu
AP1.37	Mohan
,	Nagaboopathy
AP1.38	lan P. Seetoh
AP1.39	Tomonobu Tsuchiya
AP1.40	Jarod c. Gagnon
AP1.41	Kanako Shojiki
AP1.42	Xu Qiang Shen
AP1.43	Jiejun Wu
AP1.44	Jose Fernando D.
	Chubaci

AP1.45 Hae-Yong Lee

A: BULK AND FILM GROWTH (CONTINUED)

Sneha Pandya
Mahesh Pandikunta
Mahesh Pandikunta
Koshi Nakamura
Young Kuk Lee
Mahesh Kumar
S. B. Krupanidhi
S. B. Krupanidhi
Gleb Lukin
Radoslaw Zwierz
Sergei V. Novikov
Rytis Dargis
Ke Wang
Kenji Ishikawa
Roland Tomasiunas
Makoto Sekine
Juan G. Lozano
Ichiro Yonenaga
Antoni Ciszewski
Xiang Gao
Yuriy Danylyuk
Li Zhang
Toshinari Nukaga
Hareesh Chandrasekar
Akihiro Mihara
Arunas Kadys
Agne Zukauskaite
Yvon Cordier
Theodoros Karakostas
Ronny Kirste
Toni Markurt
Philomeia Komninou

B: OPTICAL DEVICES, VISIBLE

PAPER #	PRESENTER
BP1.01	Weijie Chen
BP1.02	Junjun Wang
BP1.03	Ray Hua Horng
BP1.04	Kiran Dasari
BP1.05	Ding Li
BP1.06	Zhuang Zhe
BP1.07	Yue Lin
BP1.08	JongHak Kim
BP1.09	Yu-Tong Chen
BP1.10	Kyeong Heon Kim
BP1.11	M. J. Davies

B) OPTICAL DEVICES VISIBLE (CONTINUED)

BP1.12 Kun-Yu A. Lai

	DF 1.12	Nuil-Tu A. Lai
	BP1.13	Soo Jin Chua
	BP1.14	Wei Yang
	BP1.15	Saulius Nargelas
	BP1.16	Chun-Han Lin
	BP1.17	Horng-Shyang Chen
	BP1.18	Shumin He
	BP1.19	Modestos Athanasiou
	BP1.20	Taeki Kim
	BP1.21	Hideaki Murotani
	BP1.22	Hooyoung Song
	BP1.23	Liang Zhao
	BP1.24	Kyusang Kim
	BP1.25	Tae-Soo Kim
ø	BP1.26	Xiaoli Ji
	BP1.27	Der-Yuh Lin
	BP1.28	Koji Okuno
	BP1.29	Sneha Rhode
	BP1.30	Ki-Nam Park
	BP1.31	Szymon Stanczyk
	BP1.32	Young Jae Park
	BP1.33	Kwang Jae Lee
	BP1.34	Young Chul Leem
	BP1.35	Su Jin Kim
	BP1.36	Jae-Joon Kim
	BP1.37	Hiroto Sekiguchi
	BP1.38	Agata Bojarska
	BP1.39	Miao-Chan Tsai
	BP1.40	Hao Jiang
	BP1.41	Ty J. Prosa
	BP1.42	Jeremy B. Wright
	BP1.43	Leah Y. Kuritzky
	BP1.44	Jochen Bruckbauer
	BP1.45	Xue Wang
	BP1.46	Danny Sutherland

BP1.47 Munsik Oh

C: UPTICAL DEVICES, UV					
PAPER #	PRESENTER				
CP1.01	Michael Kunzer				
CP1.02	Vinod Adivarahan				
CP1.03	Masafumi Yamaguchi				
CP1.04	Jianchang Yan				
CP1.05	Baijun Zhang				
CP1.06	Andrea Knigge				
CP1.07	Benjamin Neuschl				
CP1.08	Lauri Riuttanen				

C: OPTICAL DEVICES, UV (CON) NUED)

ŀ	CP1.09	Gintautas Tamulaitis
ŀ	CP1.10	Russell D. Dupuis
ŀ	CP1.11	Mickael Lapeyrade
ľ	CP1.12	Konstantin S. Zhuravlev
ŀ	CP1.13	Hyun Jeong
ŀ	CP1.14	John B. Schlager
1	CP1.15	Yoshiya Iwata
ŀ	CP1.16	Sergey Kurin
ŀ	CP1.17	Bernard Gil
	CP1.18	Robert Kudrawiec
4	CP1.19	Kestutis Jarasiunas

D: ELECTRICAL DEVICES		
PAPER #	PRESENTER	
DP1.01	Kestutis Jarasiunas	
DP1.02	Bongmook Lee	
DP1.03	H. Jackson	
DP1.04	Bahadir Kucukgok	
DP1.05	Shlomo Mehari	
DP1.06	Digbijov N. Nath	
DP1.07	Daming Wei	
DP1.08	Namcheol Jeon	
DP1.09	Fang YuLong	
DP1.10	Yujin Hori	
DP1.11	Di Meng	
DP1.12	Karl D. Hobart	
DP1.13	Marko Tadjer	
DP1.14	Defeng Lin	
DP1.15	Abdullah Al-Khalidi	
DP1.16	TingTing Yuan	
DP1.17	Kazushige Horio	
DP1.18	Shinya Takashima	
DP1.19	Joshua R. Smith	
DP1.20	Hiroko Iguchi	
DP1.21	Ahmed Chakroun	
DP1.22	Zhang Jihong	
DP1.23	Peng Liu	
DP1.24	Jiechen Wu	
DP1.25	Takuma Nakano	
DP1.26	Xin Kong	
DP1.27	Weijun Luo	
DP1.28	Sen Huang	
DP1.29	Ashu Wang	
DP1.30	Marcel A. Py	
DP1.31	Ng Geok Ing	
DP1.32	Alexander Y. Polyakov	

TUESDAY

Poster Authors Set-up 1:00 pm + 6:00 pm

General Viewing | Potomac C/D and 1-6 6;00 pm - 7:30 pm

A: BULK AND FILM GROWTH

A: BULK AND FILM GROWTH			
PAPER #	PRESENTER	B	
AP2.01	Vladimir Nikolaev		
AP2.02	Michael A.Derenge		
AP2.03	Alexana Roshko		
AP2.04	Konstantin Zhuravlev		
AP2.05	Carol Trager-Cowan		
AP2.06	Philomela Komninou		
AP2.07	Adam Bross		
AP2.08	Julita Smalc-Koziorowska		
AP2.09	Peter W. Binsted		
AP2.10	Takeki Itoh		
AP2.11	Ana M. Bengoechea Encabo		
AP2.12	Samir M. Hamad		
AP2.13	Masao Matsuoka		
AP2.14	Vitaly Z. Zubialevich		
AP2.15	Miguel A. Caro		
AP2.16	Albert Davydov		
AP2.17	Xianzhe Jiang		
AP2.18	Laura Monteagudo- Lerma		
AP2.19	Frank Brunner		
AP2.20	Joerg Schoermann		
AP2.21	Ernst R. Buss		
AP2.22	Ross Miller		
AP2.23	Nikolaus Dietz		
AP2.24	Nirupam Hatui		
AP2.25	Cao Miao		
AP2.26	Milena R. Bobea		
AP2.27	Chu-An Li		
AP2.28	Dmitrii Nechaev		
AP2.29	Thomas Kure		
AP2.30	Atsushi Kobayashi		
AP2.31	Jiaming Wang		
AP2.32	Yingda Chen		
AP2.33	Neeraj Nepal		
AP2.34	Lindsay Hussey		
AP2.35	Masahiko Matsubara		
AP2.36	Kentaro Furusawa		
AP2.37	Haiding Sun		
AP2.38	Toru Sugiyama		
AP2.39	Jialing Yang		
AP2.40	Jeonghwan Jang		
AP2.41	Seohwi Woo		
AP2.42	Isaac Bryan		

AP2.43

Sergio Fernandez Garrido AP2.44 Woei-Tyng Lin AP2.45 Marian D. Caliebe

A: BULK AND FILM GROWTH (CONTINUED)

1	AP2.46	Chia-Hung Lin
F	AP2.47	Toshiki Hikosaka
F	AP2.48	JongJin Jang
F	AP2.49	Tomoaki Sumi
F	AP2.50	Toni Markurt
P	AP2.51	Wen-Cheng Ke
A	AP2.52	Pei-Yin Lin
A	AP2.53	Gangadhara R. Yaddanapudi
P	AP2.54	Vera Prozheeva
A	AP2.55	Matthias Wieneke
A	AP2.56	Hu Liang
A	P2.57	Peter Parbrook
P	AP2.58	Tobias Meisch
A	AP2.59	Danny Sutherland
P	NP2.60	Takumi Hatakeyama
P	AP2.61	Arata Watanabe
P	P2.62	Takuji Arauchi
A	P2.63	Juan G. Lozano
A	AP2.64	R. Radhakrishnan Sumathi
A	AP2.65	Theodoros Karakostas
A	AP2.66	Tomoyuki Tanikawa
A	P2.67	Dmitry Artemiev
A	AP2.68	Tadashi Mitsunari
A	P2.69	Jiayi Shao
A	P2.70	Govind Gupta
A	P2.71	Haoning Li
A	P2.72	Alex Zhang
A	P2.73	Henryk Turski
Α	P2.74	Jr-Tai Chen
A	P2.75	Robert Kudrawiec
Α	P2.76	Andreas Kraus
A	P2.77	F. C. Massabuau

B: OPTICAL DEVICES, VISIBLE

D. Of HOME DEVICES, VISIBLE	
PAPER #	PRESENTER
BP2.01	Joy McNamara
BP2.02	Tak Jeong
BP2.03	Binh H. Le
BP2.04	Hyung-Jo Park
BP2.05	Xinbo Zou
BP2.06	Dong-Sing Wuu
BP2.07	Min Joo Park
BP2.08	JongHak Kim
BP2.09	Ching-Wen Chang
BP2 10	Grzenorz Staszczał

B: OPTICAL DEVICES, VISIBLE (CONTINUED)

BP2.11 Lukas Schade

BP2.12	Kim Sang-Jo
BP2.13	Kenjo Matsui
BP2.14	Kisu Joo
BP2.15	Masahiro Yamagishi
BP2.16	Ewa Grzanka
BP2.17	Seul-Kee Moon
BP2.18	Martin Mandi
BP2.19	Shunfeng Li
BP2.20	Silvia Schwyn Thoer
BP2.21	Michael J. Wallace
BP2.22	Yen-Hsiang Fang
BP2.23	Kenji Shiojima
BP2.24	Ramunas Aleksiejunas
BP2.25	Agata Bojarska
BP2.26	Martin Albrecht
BP2.27	Robert Koester
BP2.28	Daehong Min
BP2.29	Lise Lahourcade
BP2.30	Tomas Grinys
BP2.31	Jochen Bruckbauer
BP2.32	Marcus Mueller
BP2.33	Ronald A. Arif
BP2.34	Tom Badcock
BP2.35	Jack Severs
BP2.36	Hoi Wai Choi
BP2.37	Brian Corbett
BP2.38	Matthias Finken
BP2.39	Damien Salomon
BP2.40	Alexander Khachapuridze
BP2.41	Yuh-Renn Wu
BP2.42	Zarko Gacevic
BP2.43	James Riley
BP2.44	M. J. Davies
BP2.45	Xue Wang

C: OPTICAL DEVICES, UV

PAPER #	PRESENTER
CP2.01	Shiro Toyoda
CP2.02	Sergey Kurin
CP2.03	Noritoshi Maeda
CP2.04	Yi-Keng Fu
CP2.05	Tae Hoon Seo
CP2.06	Yuan-Ting Lin
CP2.07	Tommaso Brazzini
CP2.08	Takao Oto

C: OPTICAL DEVICES, UV (CONTINUED)

CP2.09	Martin Eickhoff
CP2.10	Stefan Schulz
CP2.11	Joerg Teubert
CP2.12	Gunnar Kusch
CP2.13	Rahul Jayaprakash
CP2.14	Michael Kunzer
CP2.19	Andrew A. Allerman
CP2.16	Puneet Suvarna
CP2.17	Kayo Koike
CP2.18	Gintautas Tamulaitis

D- ELECTRICAL DEVICES

D: ELECTRICAL DEVICES		
PAPER #	PRESENTER	
DP2.01	Jin Wei	
DP2.02	Weiwei Chen	
DP2.03	Feng Zhihong	
DP2.04	Lorenzo Lugani	
DP2.05	Milan Tapajna	
DP2.06	Brianna Eller	
DP2.07	Steve Stoffels	
DP2.08	Randy P. Tompkins	
DP2.09	Min Sun	
DP2.10	Russell D. Dupuis	
DP2.11	Shenglei Zhao	
DP2.12	Paul Blanchard	
DP2.13	Geok I. Ng	
DP2.14	Yao Yao	
DP2.15	Munsik Oh	
DP2.16	Wen-Ti Hsu	
DP2.17	Wen-Chia Liao	
DP2.18	Alexander Y. Polyakov	
DP2.19	Yan-Lun Chen	
DP2.20	Yusuke Kumazaki	
DP2.21	Kei Sakamoto	
DP2.22	Hayao Kasai	
DP2.23	Hiroki Ogawa	
DP2.24	Ogyun Seok	
DP2.25	Jaroslav Dzuba	
DP2.26	Shinhyuk Choi	
DP2.27	Anna Maimros	
DP2.28	Hyojung Bae	
DP2.29	Baikui Li	
DP2.30	Anna Podolska	
DP2.31	Andrei Osinsky	
DP2.32	Albert Minj	
DP2.33	Jieqin Ding	

DP2.34 Zhang Kai

WEDNESDAY

Poster Authors Set-up

8:30 am - 1:00 pm

General Viewing | Potomac C/D and 1-6

1:00 pm - 2:30 pm

AS BULK AND FILM GROWTH		
PAPER#	PRESENTER	
AP3.01	Masanori Nambu	
AP3.02	Yohei Sugiura	
AP3.03	Narihito Okada	
AP3.04	Kazuhiko Hara	
AP3.05	Ichiro Yonenaga	
AP3.06	Yasuhiro Hashimoto	
AP3.07	Masayoshi Adachi	
AP3.08	Michal Bockowski	
AP3.09	Ke Wang	
AP3.10	JunZe Lee	
AP3.11	Denis Martin	
AP3.12	Motohisa Ueno	
AP3.13	Juergen Daeubler	
AP3.14	Stephan Figge	
AP3.15	Michael Jetter	
AP3.16	Kentaro Onabe	
AP3.17	Lars Grieger	
AP3.18	Vanya Darakchieva	
AP3.19	Suk-Min Ko	
AP3.20	Robert Kudrawiec	
AP3.21	Benjamin Leung	
AP3.22	Md Tashfin Z. Hossain	
AP3.23	Satoru Uchimura	
AP3.24	Masahiro Sakamoto	
AP3.25	Vijay K. Narasimhan	
AP3.26	Young-Ho Ko	
AP3.27	Rytis Dargis	
AP3.28	Jie Song	
AP3.29	Edward B. Stokes	
AP3.30	Ke-Xun Sun	
AP3.31	Dong-Seok Kim	
AP3.32	HyoSang Yu	
AP3.33	Fatih Akyol	
AP3.34	Louis J. Guido	
AP3.35	Yuan Bu	
AP3.36	Sang-Min Jeon	
AP3.37	Liverios Lymperakis	
AP3.38	Nadeemullah A. Mahadik	
AP3.39	Stephan M. Knoll	
AP3.40	Deon Bharrat	
AP3.41	Baozhu Wang	
AP3.42	Isaac Bryan	
AP3.43	SeongJin Bak	
AP3.44	Daniel D. Koleske	
AP3.45	Matthew Highland	
AP3.46	Matt Brubaker	

AP3.47 Joshua Williams

A: BULK AND FILM GROWTH (CONTINUED)

AP3.48	Stefan Mohn
AP3.49	Hae-Yong Lee
AP3.50	Antonio Ferreira da Silva
AP3.51	Adam Moldawer
AP3.52	Kris Bertness
AP3.53	Mark Oliver
AP3.54	W. R. Willoughby
AP3.55	Siyuan Zhang
AP3.56	Haoran Li
AP3.57	F. C. Massabuau
AP3.58	Jeff Leathersich
AP3.59	Jingzhou Wang
AP3.60	Jian Wei Ho
AP3.61	Andriy Zakutayev
AP3.62	Wei-Li Chen
AP3.63	Paritosh Wadekar
AP3.64	Shaul Aloni
AP3.65	Cai Liu
AP3.66	Valentine Jmerik
AP3.67	Jing Lu
AP3.68	Edward Preble
AP3.69	Hao Fang
AP3.70	Norman A. Sanford
AP3.71	Mark A. Hoffbauer
AP3.72	Hongbo Wang
AP3.73	Faiza A. Faria
AP3.74	Konstantin Zhuravlev
AP3.75	Frank Bertram

B: OPTICAL DEVICES, VISIBLE

D. OT HOME DEVICES, VISIBLE		
PRESENTER		
Michael Mastro		
Ada Wille		
Pan-Ju Choi		
Lise Lahourcade		
Wenting Hou		
Stefan Schulz		
Noemi Garcia-Lepetit		
K. Scott Butcher		
Zarko Gacevic		
Tadas Malinauskas		
Dimiter Alexandrov		
Tyler Hill		
Lucja Marona		
Duk-jo Kong		
Marco Rossetti		

B OPTICAL DEVICES, VISIBLE, (CONTINUED)

BP3.16	Mohsen Nami
BP3.17	Eleonora Secco
BP3.18	Mark Beeler
BP3.19	Chia-Hung Lin
BP3.20	Seonock Kim
BP3.21	Alexander J. Woolf
BP3.22	Yuchen Yang
BP3.23	YongHoon Cho
BP3.24	Nam Han
BP3.25	Dong-Soo Shin
BP3.26	Hoi Wai Choi
BP3.27	Toshiyuki Kondo
BP3.28	Kaddour Lekhai
BP3.29	Xue Wang
BP3.30	Kota Nakao
BP3.31	Chu-Hsiang Teng
BP3.32	Qing Paduano
BP3.33	Kazuhide Kusakabe
BP3.34	Michael Kunzier
BP3.35	David Browne
BP3.36	Rahul Jayaprakash
BP3.37	Ding Li
BP3.38	Hyun Jeong
BP3.39	YangSeok Yoo
	BP3.17 BP3.18 BP3.19 BP3.20 BP3.21 BP3.22 BP3.23 BP3.24 BP3.25 BP3.26 BP3.27 BP3.28 BP3.30 BP3.31 BP3.32 BP3.33 BP3.34 BP3.35 BP3.35 BP3.35

C: OPTICAL DEVICES, UV

PAPER #	PRESENTER
CP3.01	Chalermchai Himwa
CP3.02	Gwenole Jacopin
CP3.03	Santino D. Carnevale
CP3.04	Szymon Grzanka
CP3.05	Thomas F. Kent
CP3.06	Jong-Yoon Ha
CP3.07	Georg Rossbach
CP3.08	Ramunas Aleksiejunas
CP3.09	Sara Shishehchi
CP3.10	Douglas Yoder
CP3.11	Abhishek Motayed
CP3.12	Ronny Kirste
CP3.13	Abu Zafor Muhammad Islam
CP3.14	Haiding Sun
CP3.15	Tsubasa Nakashima
CP3.16	Wei Guo
CP3.17	Mitsuaki Kaneko

CP3.18 Renchun Tao

D: ELEATRICAL DEVICES		
PAPER #	PRESENTER	
DP3.01	Jonas Hennig	
DP3.02	S. B. Krupanidhi	
DP3.03	S. B. Krupanidhi	
DP3.04	Jiejie Zhu	
DP3.05	Ben Ruck	
DP3.06	Wanjun Chen	
DP3.07	Tohru Honda	
DP3.08	Toshihide Ide	
DP3.09	Helmut Jung	
DP3.10	Michal Jurkovic	
DP3.11	Chengyu Hu	
DP3.12	Bahadir Kucukgok	
DP3.13	Yuji Wang	
DP3.14	Haidong Zhang	
DP3.15	Po-Tsung Tu	
DP3.16	Digbijoy N. Nath	
DP3.17	Zhihong Liu	
DP3.18	Shu Yang	
DP3.19	Jae-Hoon Lee	
DP3.20	Cheng Liu	
DP3.21	JunShuai Xue	
DP3.22	Sara Martin Horcajo	
DP3.23	Przemyslaw Witczak	
DP3.24	Ye Wang	
DP3.25	Jae-Gil Lee	
DP3.26	Tetsuo Narita	
DP3.27	Chia-Lung Tsai	
DP3.28	Roman Stoklas	
DP3.29	Zhang Kai	
DP3.30	Ning Tang	
DP3.31	Akinori Ubukata	
DP3.32	Bongmook Lee	
DP3.33	Di Meng	
DP3.34	Travis Anderson	
DP3.35	Alexander Y. Polyakov	

